Sapido
One for all

Dual-Band High Power Wireless Dongle

Wireless N Dual-band High Power USB Adapter

AU-5125

Networking

User Manual v1.0.0

FCC Statement

Federal Communication Commission Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

1. The device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:

2. This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

3. FCC RF Radiation Exposure Statement: The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

4. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

5. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

IMPORTANT NOTE
FCC Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance20cm between the radiator & your body.

CE Mark Warning

This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

National Restrictions

Frequency range - 2400.0 - 2483.5 MHz

Country	Country	Reason/remark
Bulgaria	none	General authorization required for outdoor use and public service.
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012.
Italy	none	If used outside of own premises, general authorization is required.
Luxembourg	none	General authorization required for network and service supply (not for spectrum).
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund.
Russian Federation	none	Only for indoor applications.

Note: Please don't use the product outdoors in France

CE Statement of Conformity

Our product has been tested in typical configuration by Ecom Sertech Corp and was found to comply with the essential requirement of "Council Directive on the Approximation of the Laws of the Member Sates relating to Electromagnetic Compatibility" (89/336/EEC; 92/31/EEC; 93/68/EEC). The Declaration of Conformity can be found at the Sapido regional website. www.sapidotech.de

CE Information of Disposal

The electric and electronic equipment or unit which is labeled with crossed-out wheeled bin may not be disposed of with household waste. This mark is based on European Directive 2002/96/EC (for Waste Electric and Electronic Equipment=WEEE).

Please take it to the designated collection facilities. We will ensure the proper recycling, reuse and other forms of recovery of WEEE. WEEE has the potential effects on the environment and human health as a result of the presence of hazardous substances. You can contribute to eliminate these effects by your cooperation.

User Guide of AU-5125

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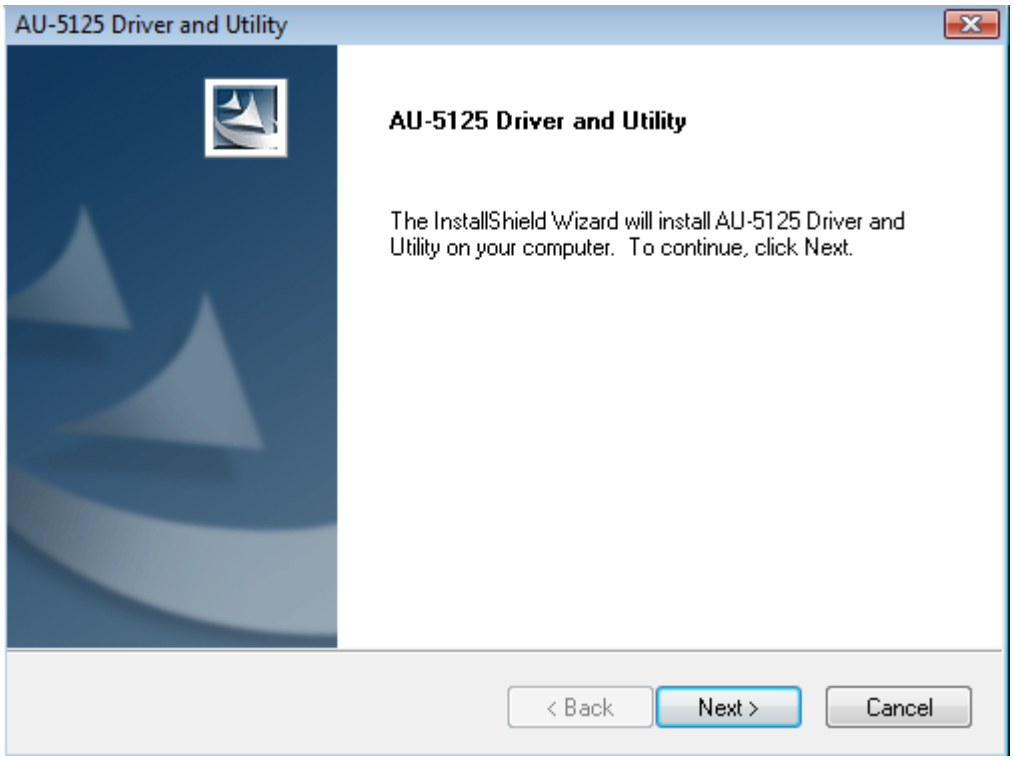
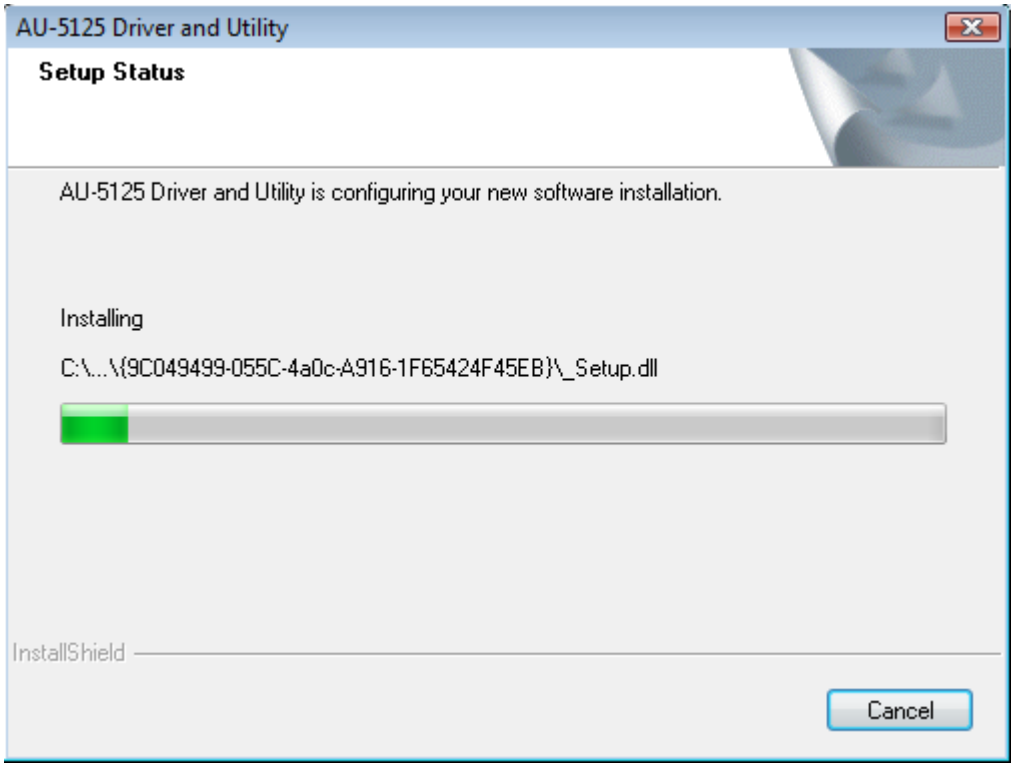
Installing the software of USB Adapter

1. Select the setup file to install. The setup program will detect user's language automatically.

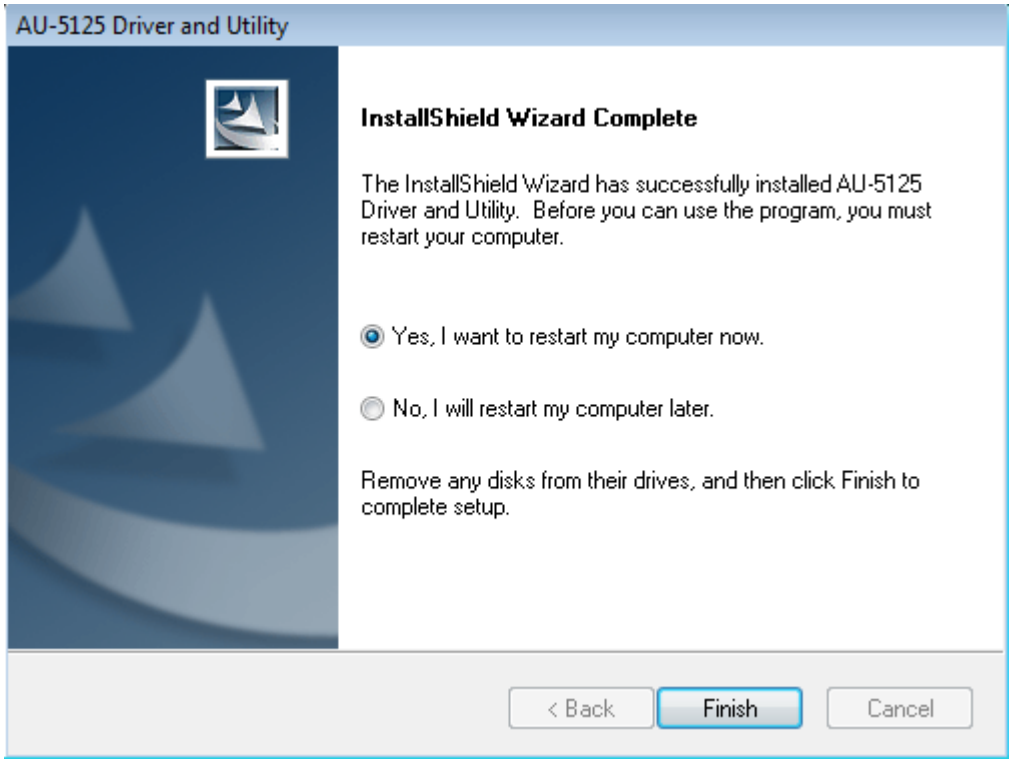
2. The setup program will install the driver and utility to computer. Please click the "Next" button to continue.


AU-5125 Driver and Utility
AU-5125 Driver and Utility
The InstallShield Wizard will install AU-5125 Driver and Utility on your computer. To continue, click Next.
< Back
Next >
Cancel

3. The software installation should begin. This may take a few minutes.



4. Once the installation success, click "Yes" to restart your system (recommended). Otherwise, click "No" to restart your system later.


AU-5125 Driver and Utility
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed AU-5125 Driver and Utility. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

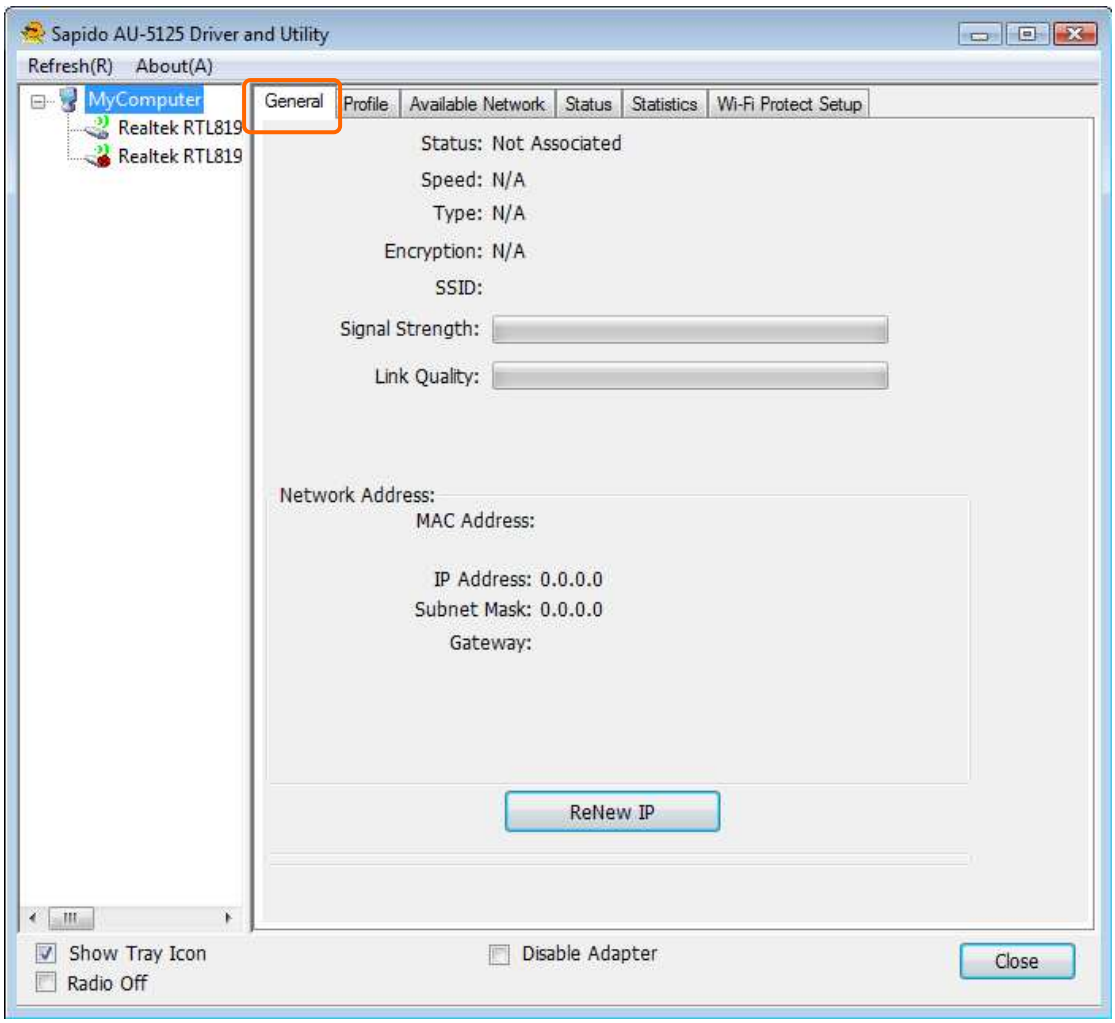
5. Once the installation complete, you may now configure your wireless network.

Configuring your wireless network (with Wireless Utility)

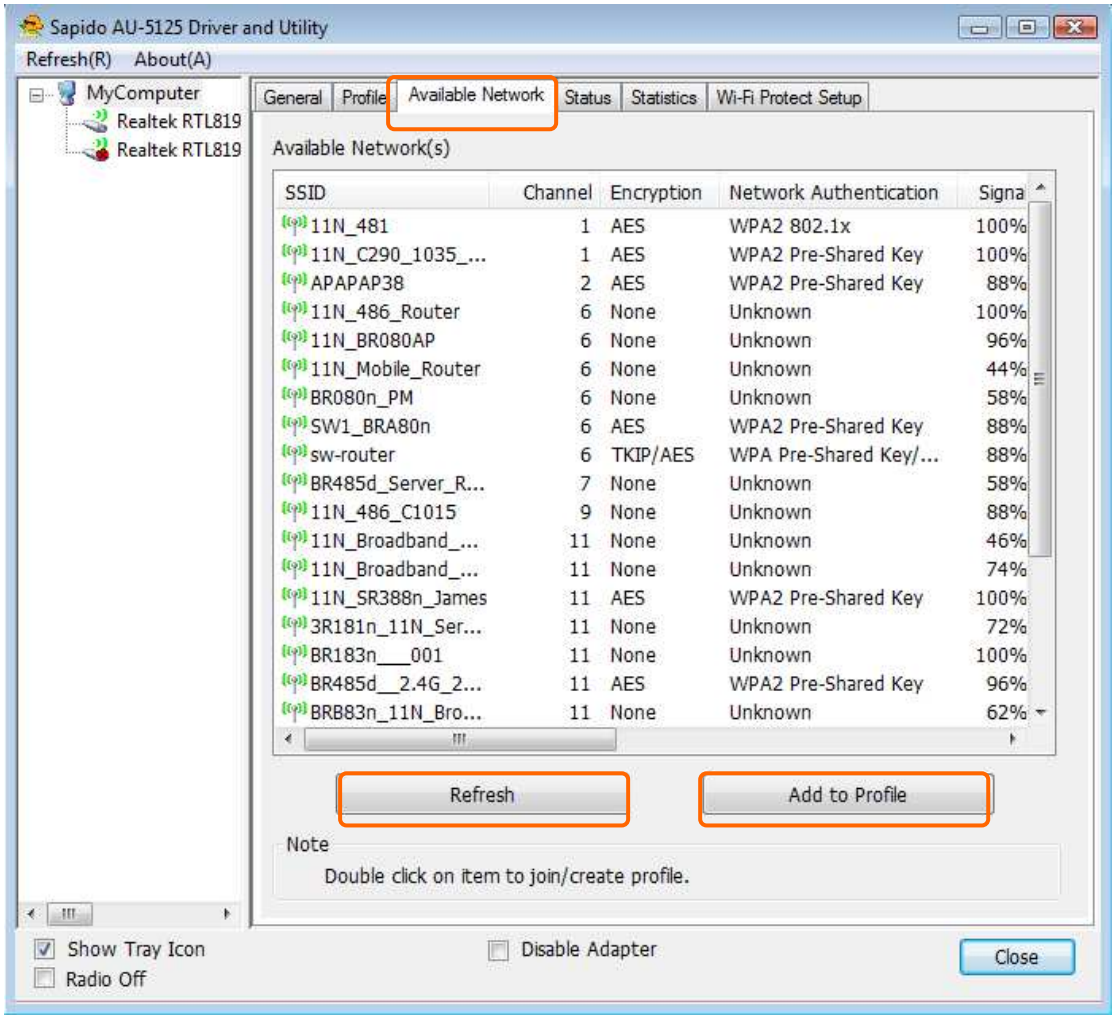
1. Windows XP users, if you chose “Microsoft Zero Configuration Tool” during the software installation please skip to page 11.

2. Double click on the computer with wireless signal icon in your taskbar or the shortcut icon on the desktop.

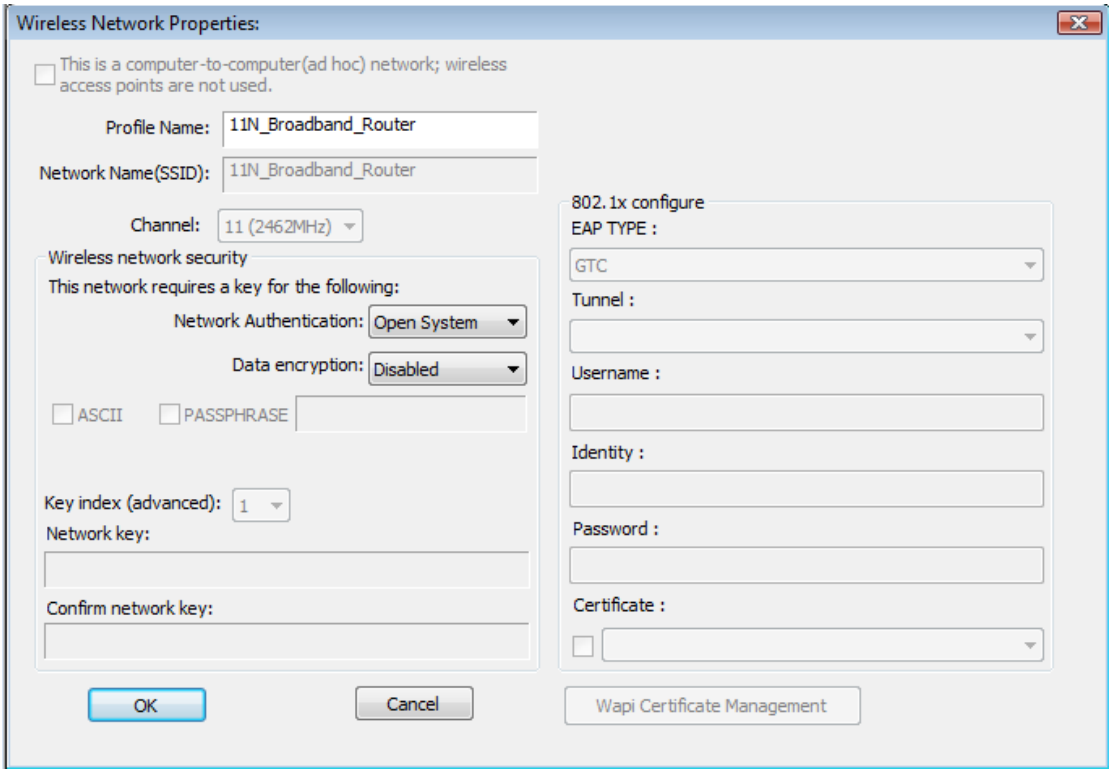
3. It should pop up the Wireless Utility window. And then utility shows the connecting wireless network that connected automatically or was the default network in profile.



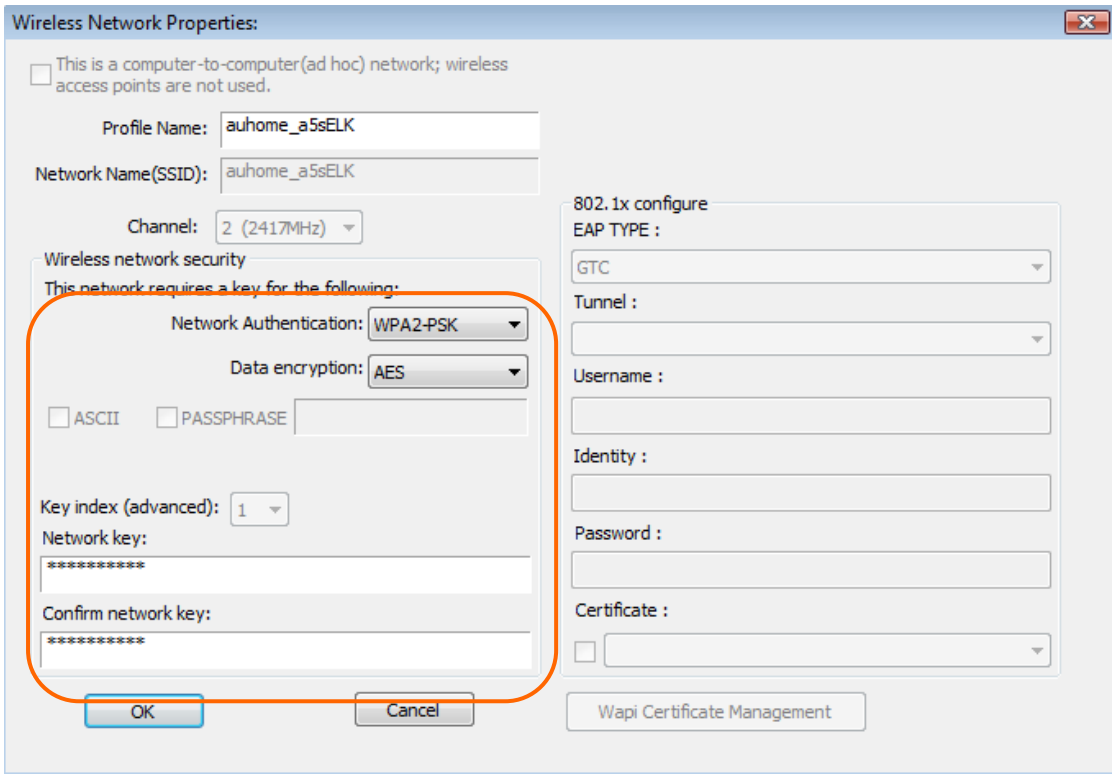
4. Click the "Available Network" tab to the wireless network surveying page. Click the "Refresh" button to scan the area for wireless network(s). Once the scan completed, select the desired wireless network from the list and double click it or click the "Add to Profile" button.



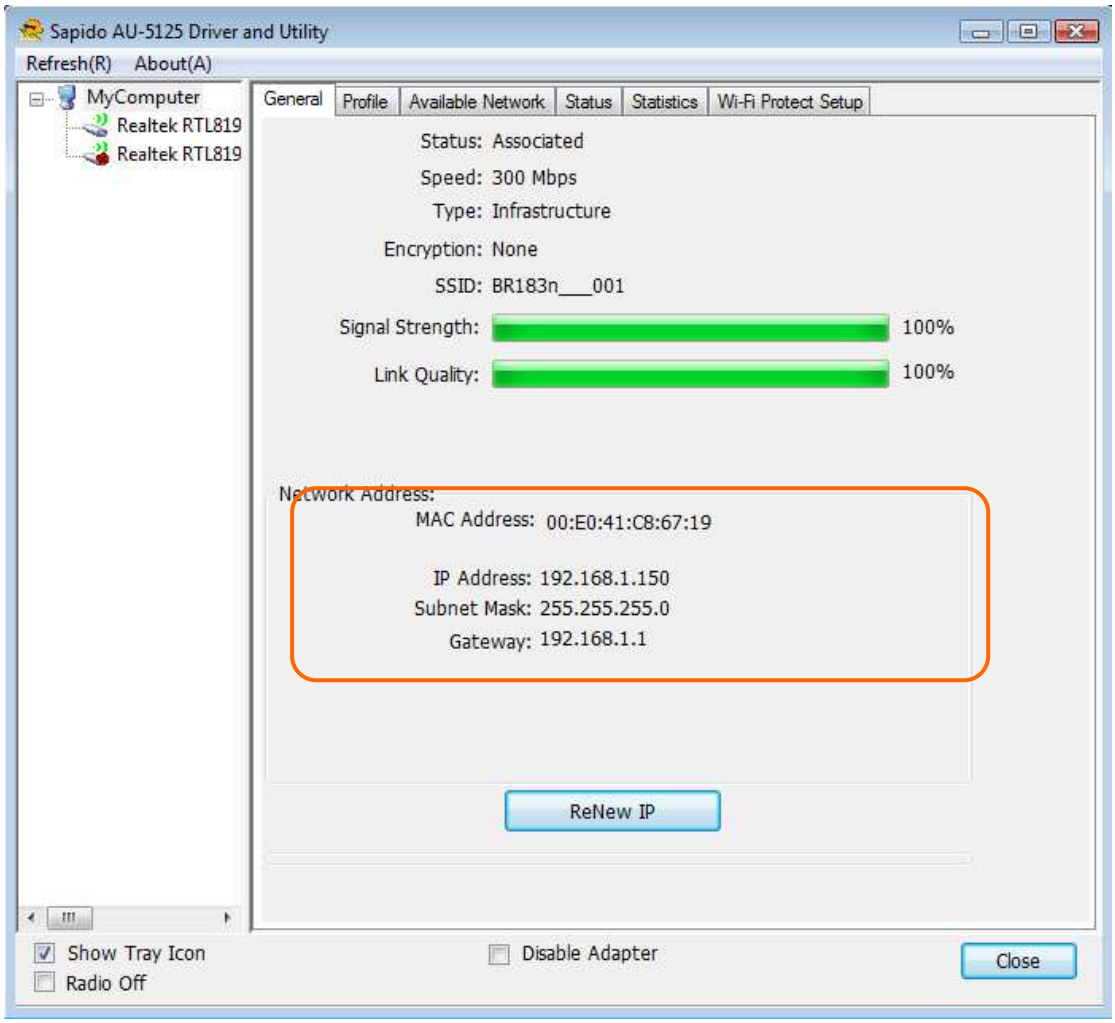
5. It should pop up the wireless Network Properties window. If you do not have any wireless security (WEP, WPA, WPA2, and etc.) set on your wireless network, simply click the "OK" button and skip to step7. If you do have wireless securities on your wireless network, configure the security setting in "Wireless network security" column.



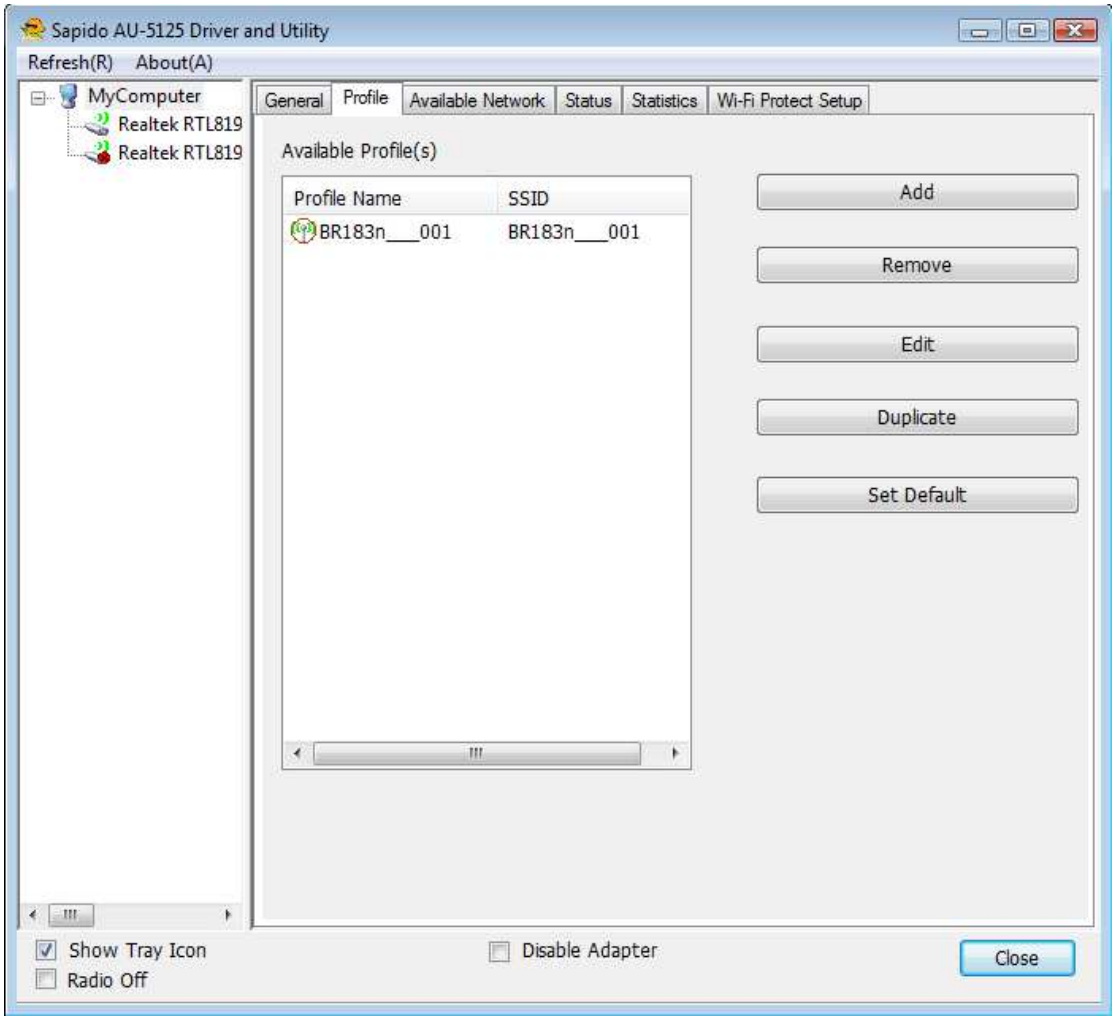
6. Set your wireless securities settings, when it completed, click the "OK" button. Select the Network Authentication and Data encryption to set the encryption type.
   - If you have WEP, typically you select the format and enter your WEP key below the Data encryption.
   - If you have WPA-PSK or WPA2-PSK, typically you only enter your key in the "Network Key" and type again to confirm it.
   - If you have 802.1x configure, typically you only configure your setting in 802.1x configure column.



7. After connected to wireless network, utility will back to "General" page and show the wireless network status. Once the wireless network connected successfully, the Network Address will show the dongle has gotten the IP address from DHCP.

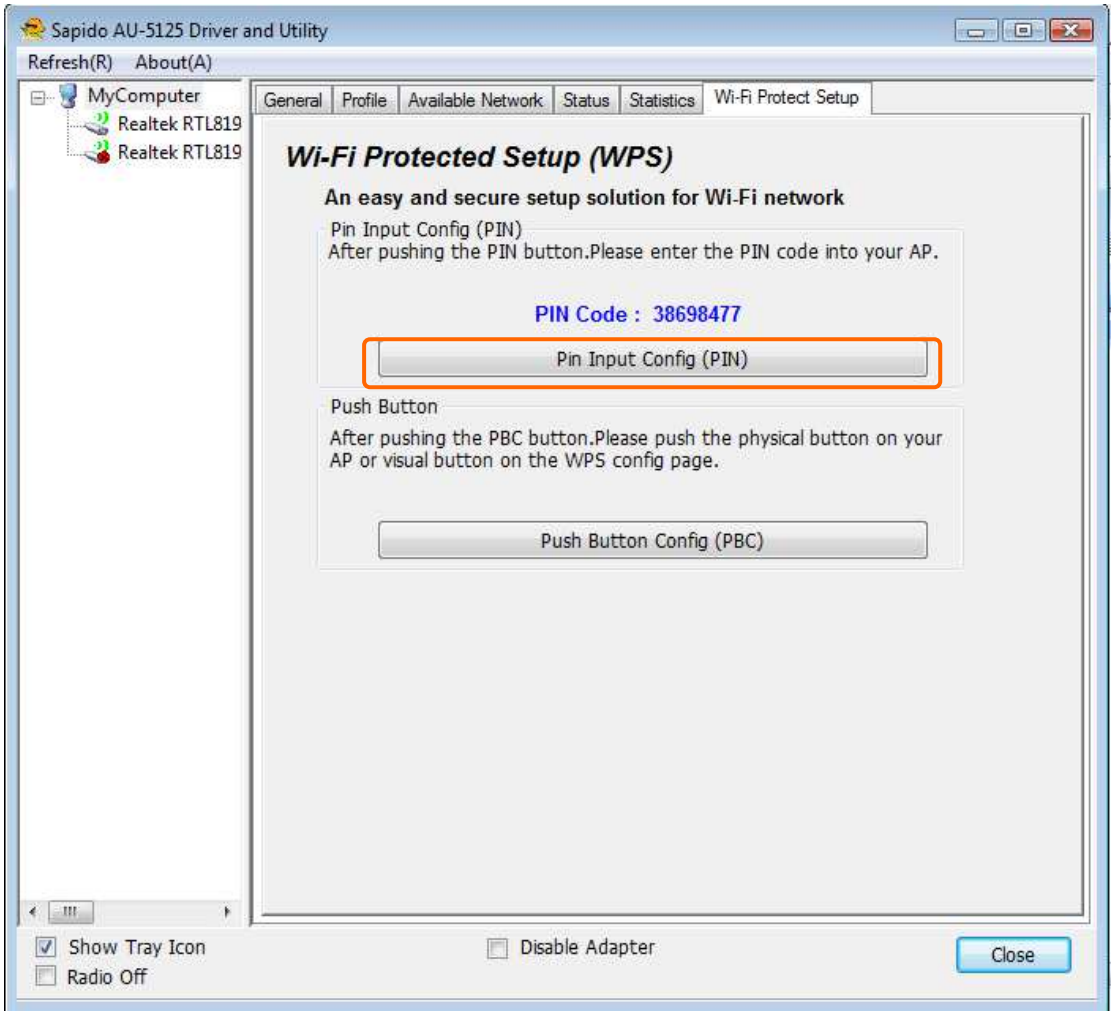


8. Click the "Profile" tab to check the profile page. The wireless network configuration has added in Available Profile(s). It could remove, edit, duplicate and set default the profiles in this page.


Sapido AU-5125 Driver and Utility
Refresh(R)
About(A)
MyComputer
Realtek RTL819
Realtek RTL819
General
Profile
Available Network
Status
Statistics
Wi-Fi Protect Setup
Available Profile(s)
Profile Name
SSID
BR183n___001
BR183n___001
Add
Remove
Edit
Duplicate
Set Default
Show Tray Icon
Radio Off
Disable Adapter
Close

Wi-Fi Protect Setup (WPS)

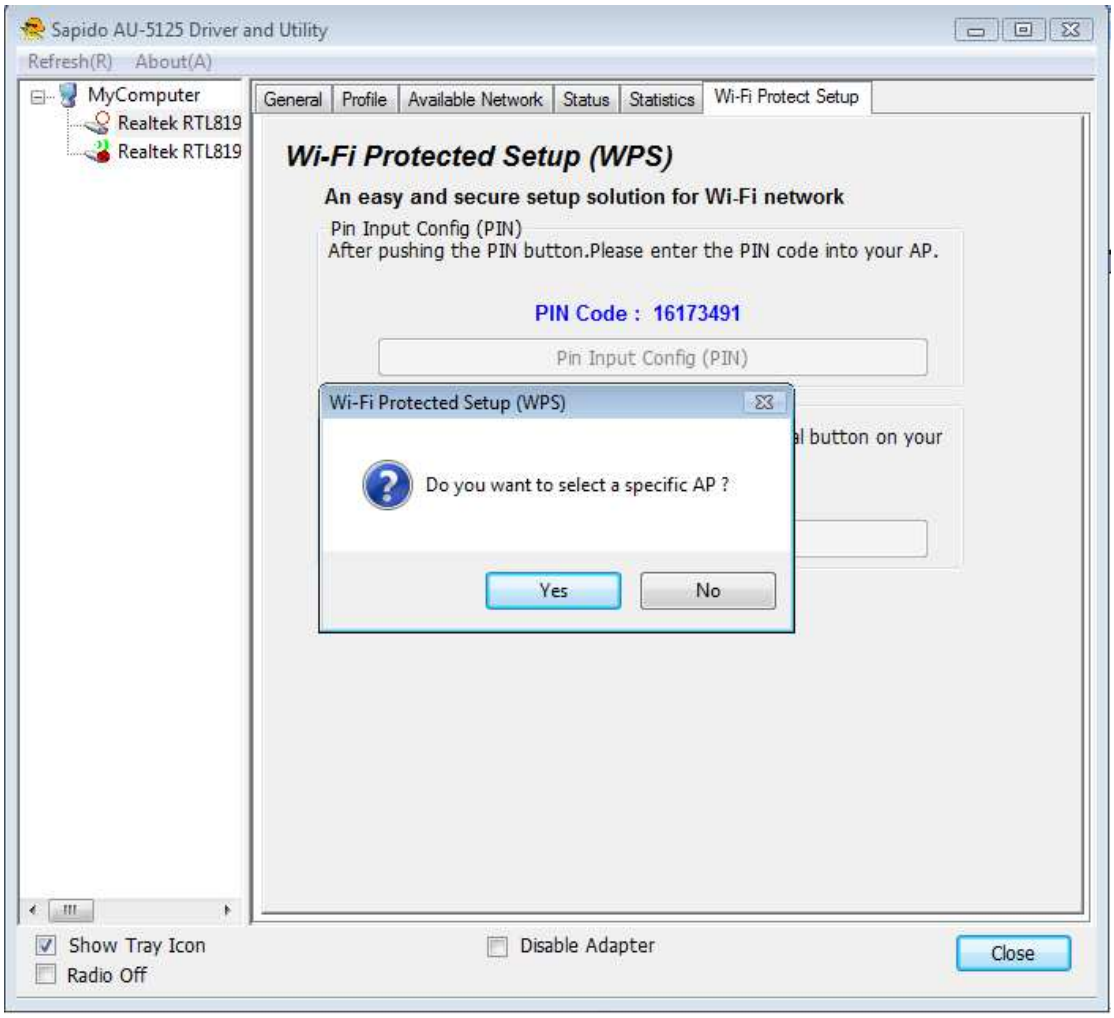
WPS is an easy and secure setup solution for Wi-Fi network. Please click the Wi-Fi Protect Setup tab. dongle has two methods, PIN (Pin Input Config) and PBC (Push Button Config), to setup the network.



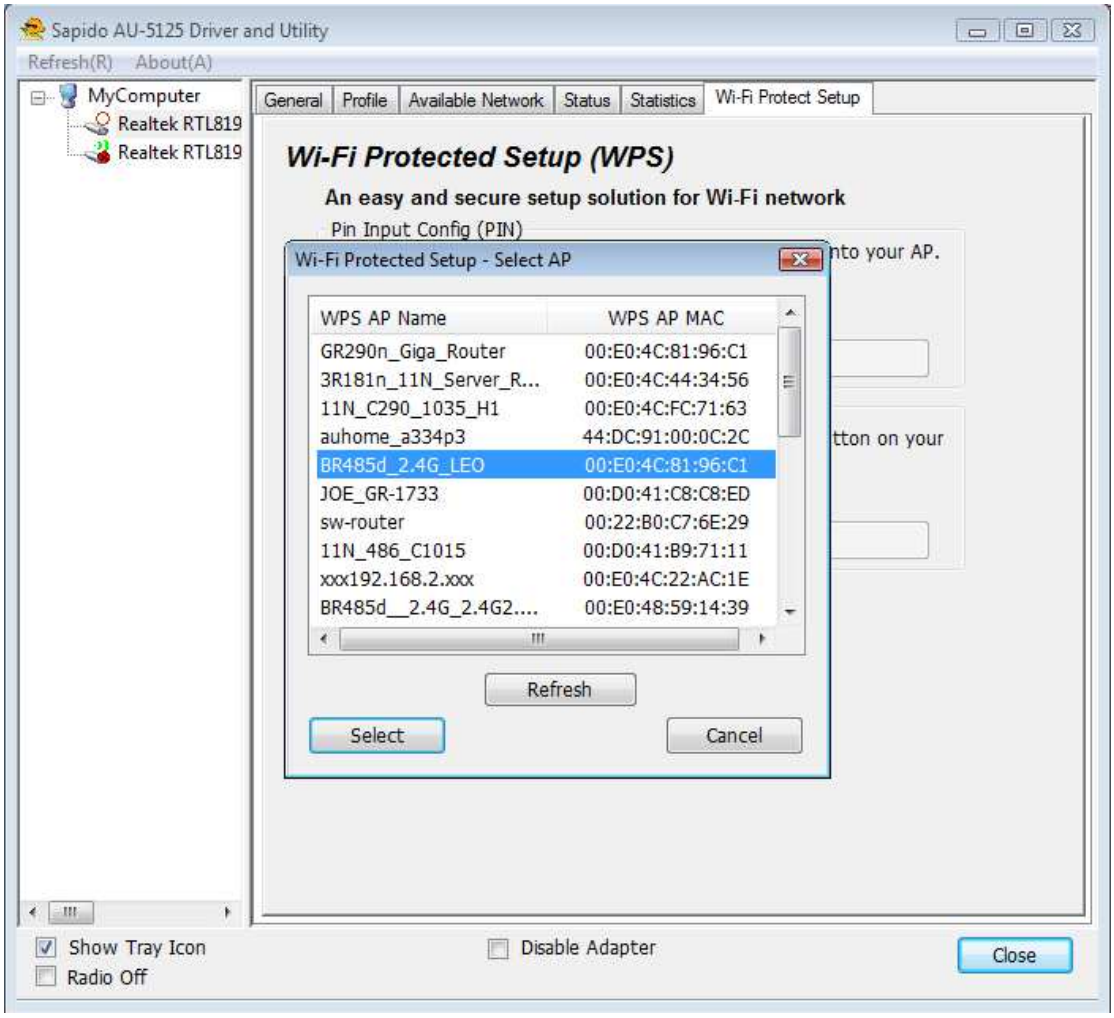
Pin Input Config (PIN)

1. Click on the "Pin Input Config (PIN)" button, and then it should pop up a message box. If you want to connect to a specific AP, please click the "Yes" button. Or please click the "No" button to continue and skip to step3.

   Note: Every time you click the tab to change the page, the PIN code will be changed.

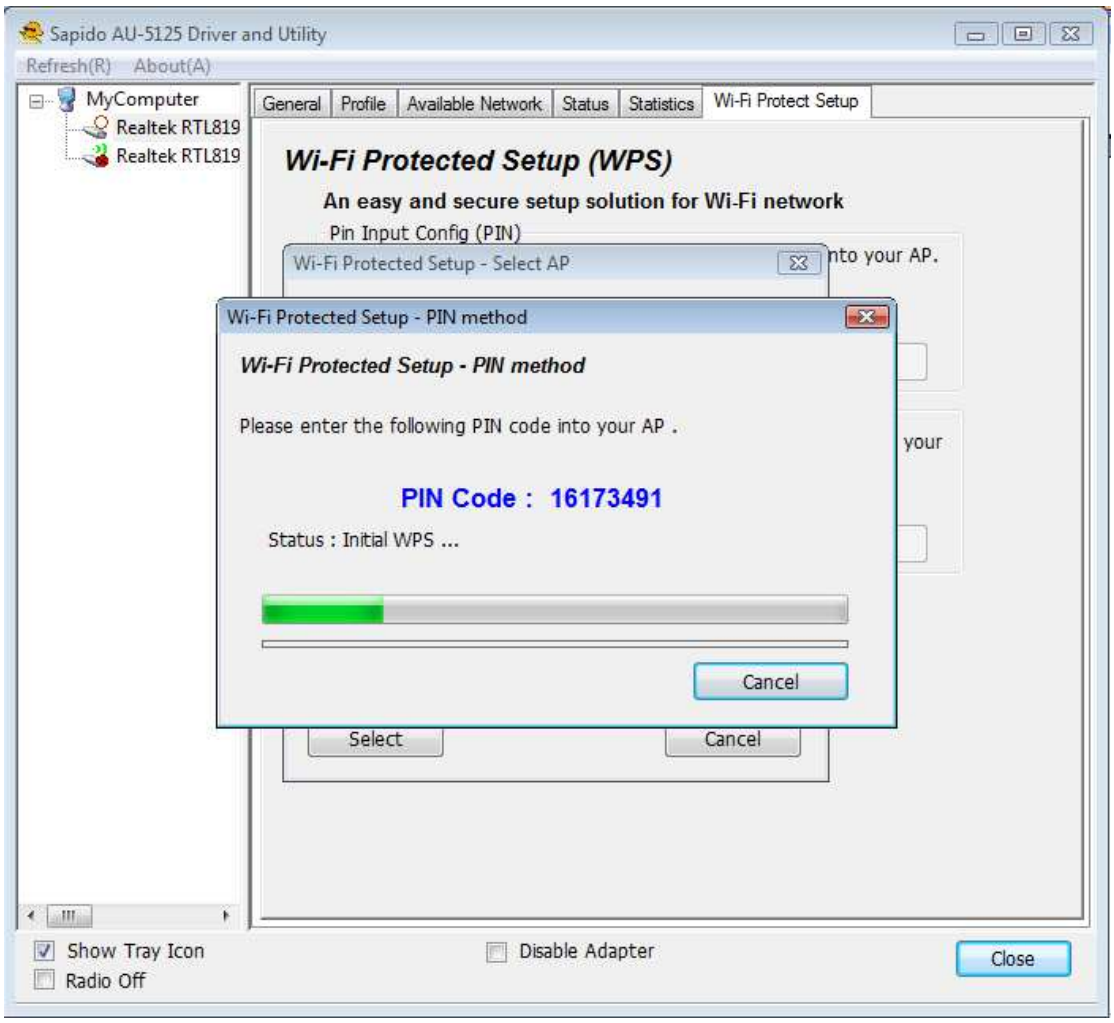


2. Select the specific AP which you want to connect. If you can not find the WPS AP in this page, please click the "Refresh" button. And then click the "Select" button.



3. Dongle is waiting for the AP to establish the connection. And then enter the PIN code into the AP that you want to connect. For example, the AP uses BR360n to be the connecting device. Enter the PIN code into client pin number and then clicks the “Start PIN” button.

   Note: The PIN function in AP should be started before the WPS setup in dongle times out.


Sapido AU-5125 Driver and Utility
Refresh(R)
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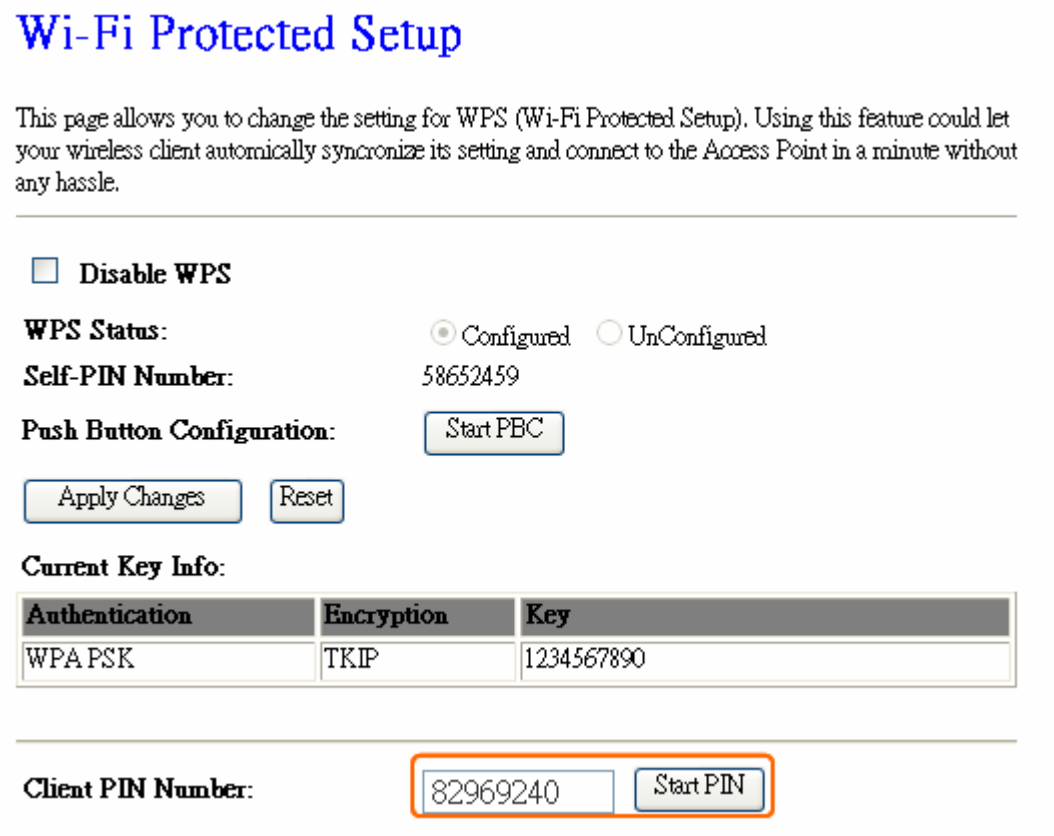
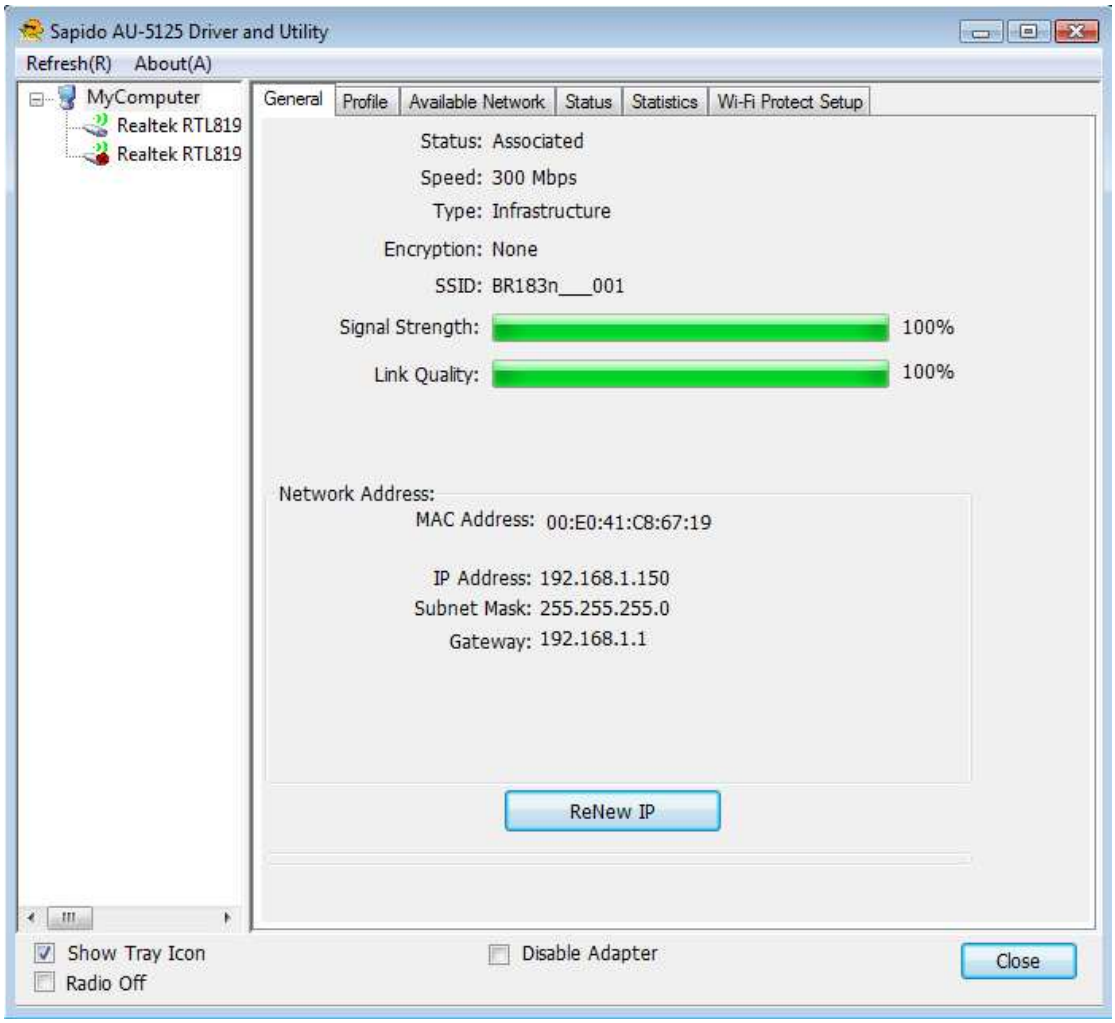
MyComputer
Realtek RTL819
Realtek RTL819
General
Profile
Available Network
Status
Statistics
Wi-Fi Protect Setup
Wi-Fi Protected Setup (WPS)
An easy and secure setup solution for Wi-Fi network
Pin Input Config (PIN)
Wi-Fi Protected Setup - Select AP
Wi-Fi Protected Setup - PIN method
Wi-Fi Protected Setup - PIN method
Please enter the following PIN code into your AP .
PIN Code : 16173491
Status : Initial WPS ...
Cancel
Select
Cancel
Show Tray Icon
Radio Off
Disable Adapter
Close



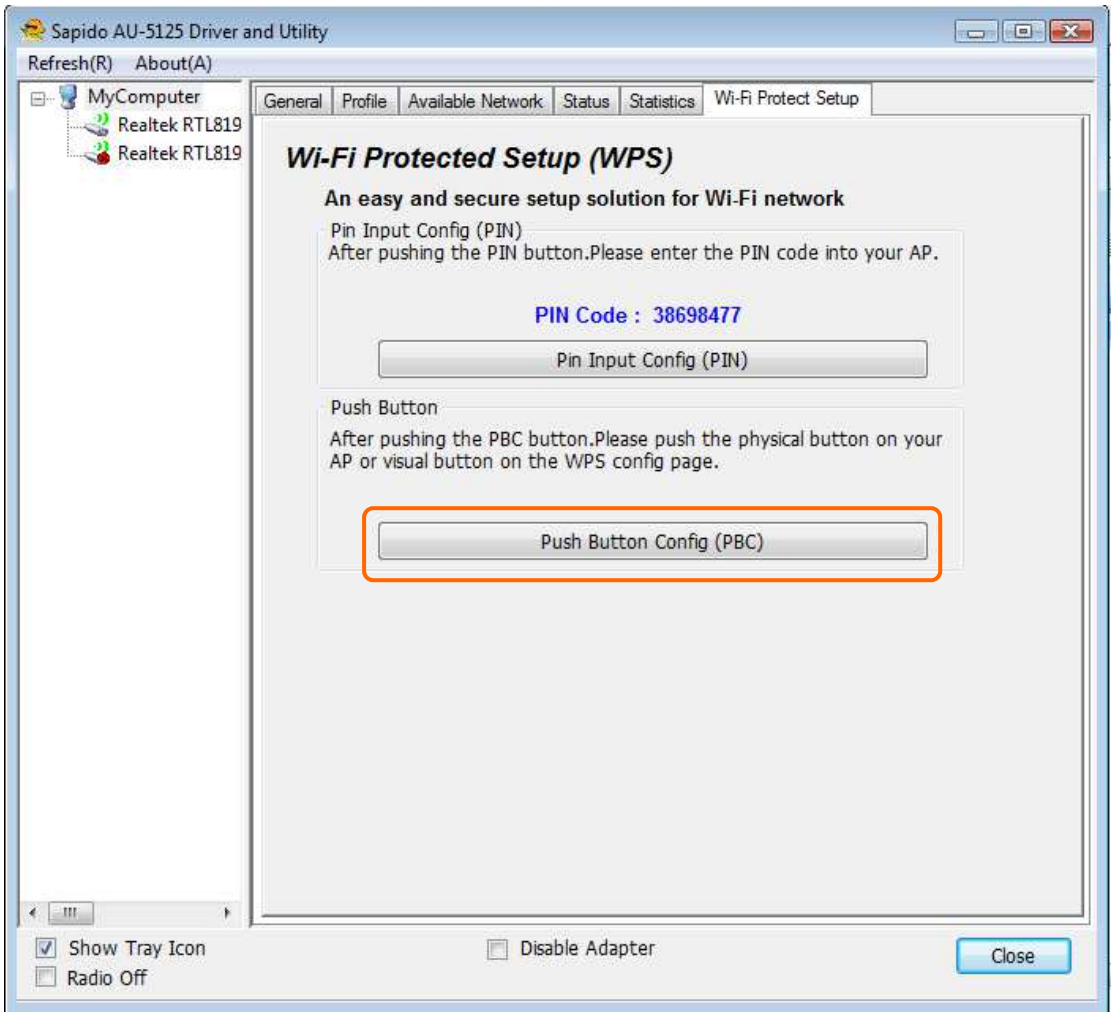
4. Once the WPS connected successfully, wireless utility will show the connection status.



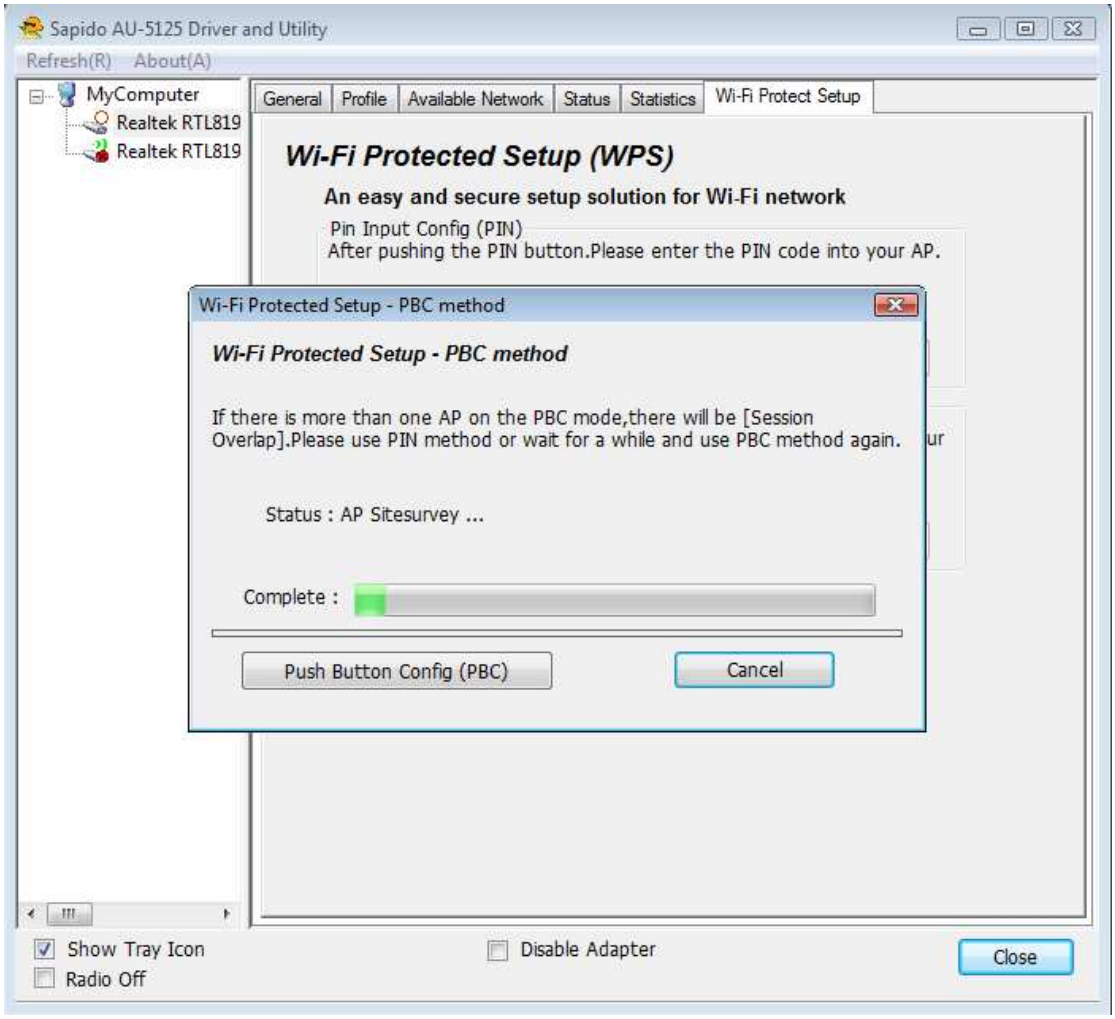
Push Button (PBC)

1. Click on the "Push Button Config (PBC)" button.

Note: The PBC button can click the visual button on the page or push the physical button on AP.



2. Dongle is waiting for the other AP to start the PBC function. The other AP starts the PBC function should be before dongle WPS times out.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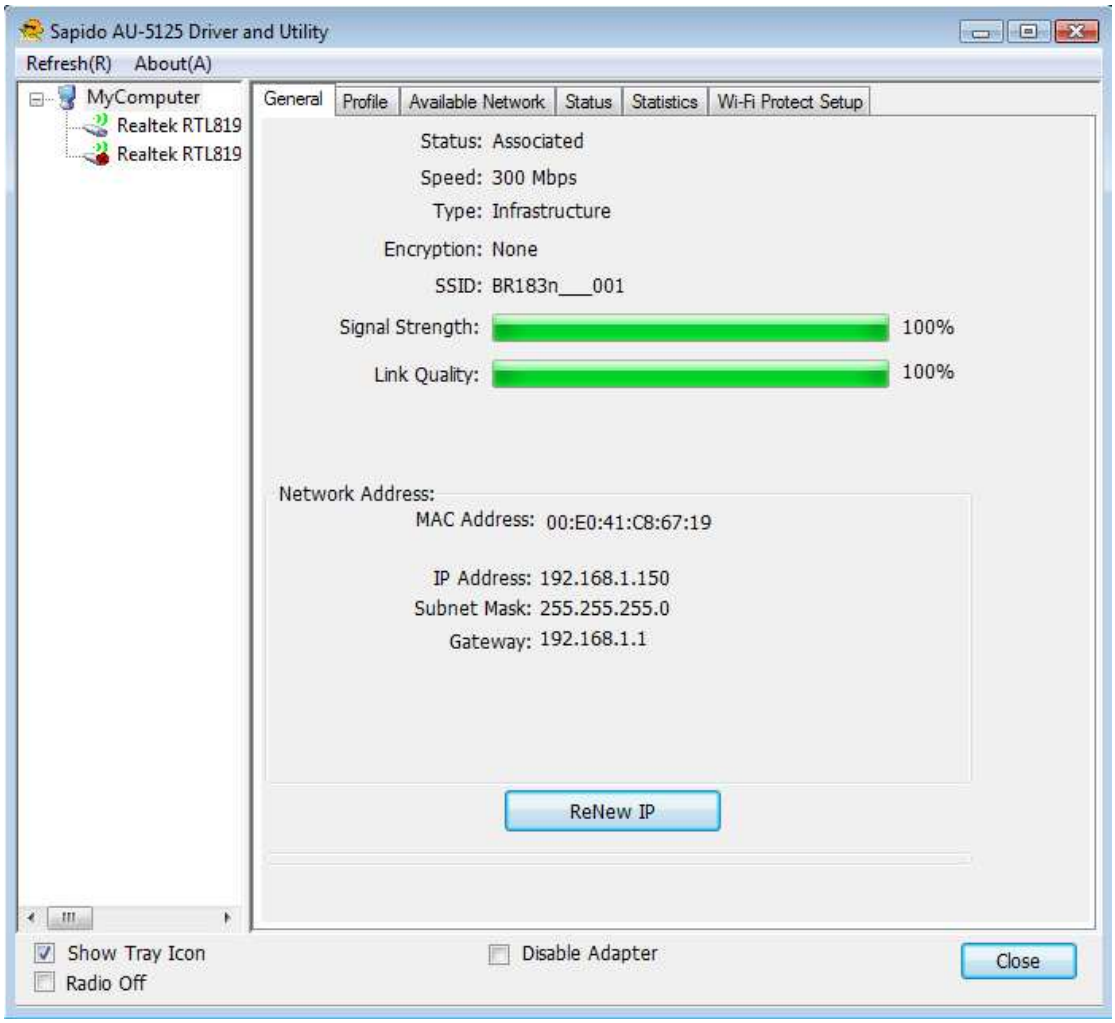
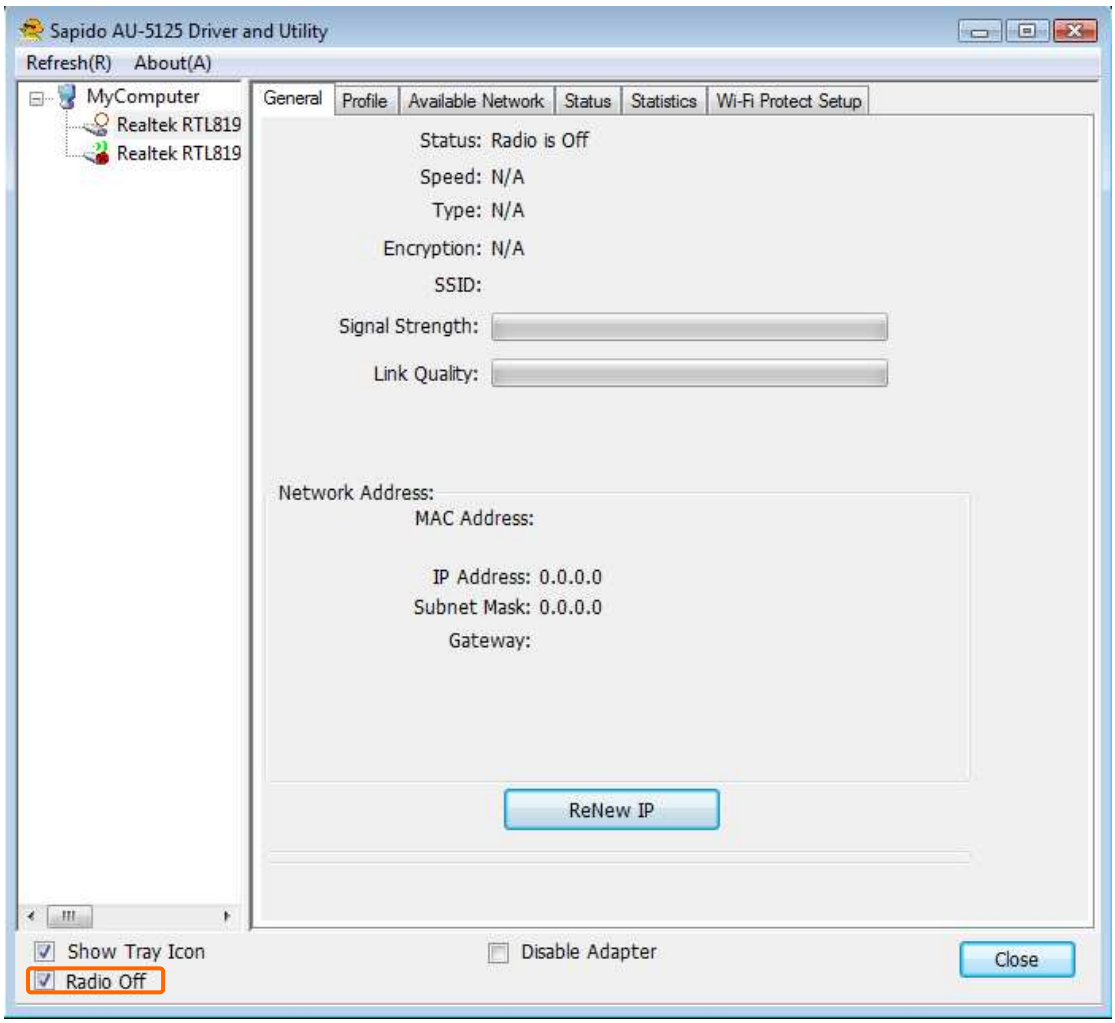
Profile
Available Network
Status
Statistics
Wi-Fi Protect Setup
Wi-Fi Protected Setup (WPS)
An easy and secure setup solution for Wi-Fi network
Pin Input Config (PIN)
After pushing the PIN button.Please enter the PIN code into your AP.
Wi-Fi Protected Setup - PBC method
Wi-Fi Protected Setup - PBC method
If there is more than one AP on the PBC mode,there will be [Session Overlap].Please use PIN method or wait for a while and use PBC method again.
Status : AP Sitesurvey ...
Complete :
Push Button Config (PBC)
Cancel
Show Tray Icon
Radio Off
Disable Adapter
Close

3. Once WPS connected successfully, Wireless Utility will show the connection status.



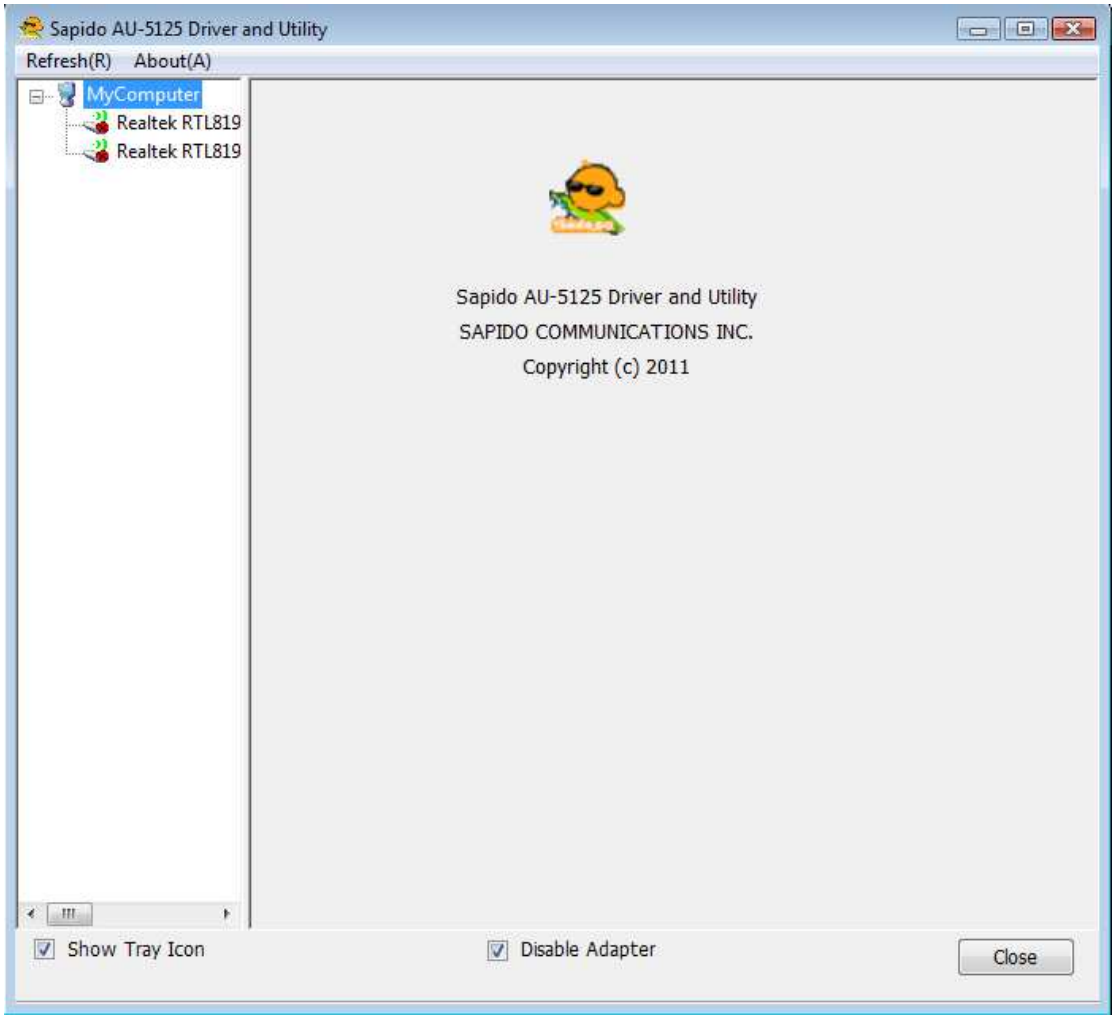
Radio Off

Enable the Radio Off will turn off the radio function. It means dongle will turn off the wireless function. The wireless network connection will be disconnected.



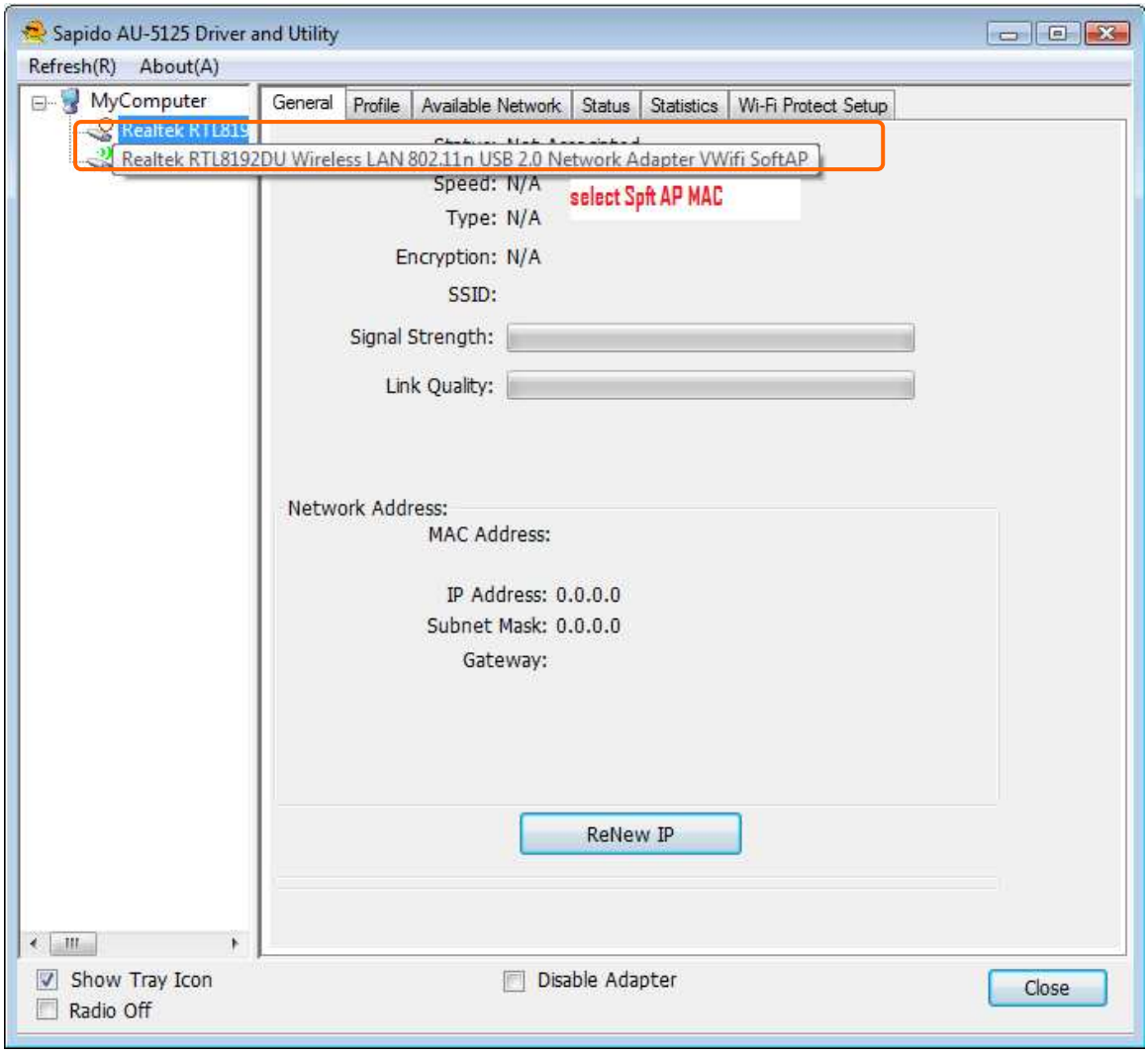
Disable Adapter

Disable the dongle will turn off the USB adapter function. It means all functions of dongle will be turn off.



Mode Selection

Users can switch between Station and Access Point modes.

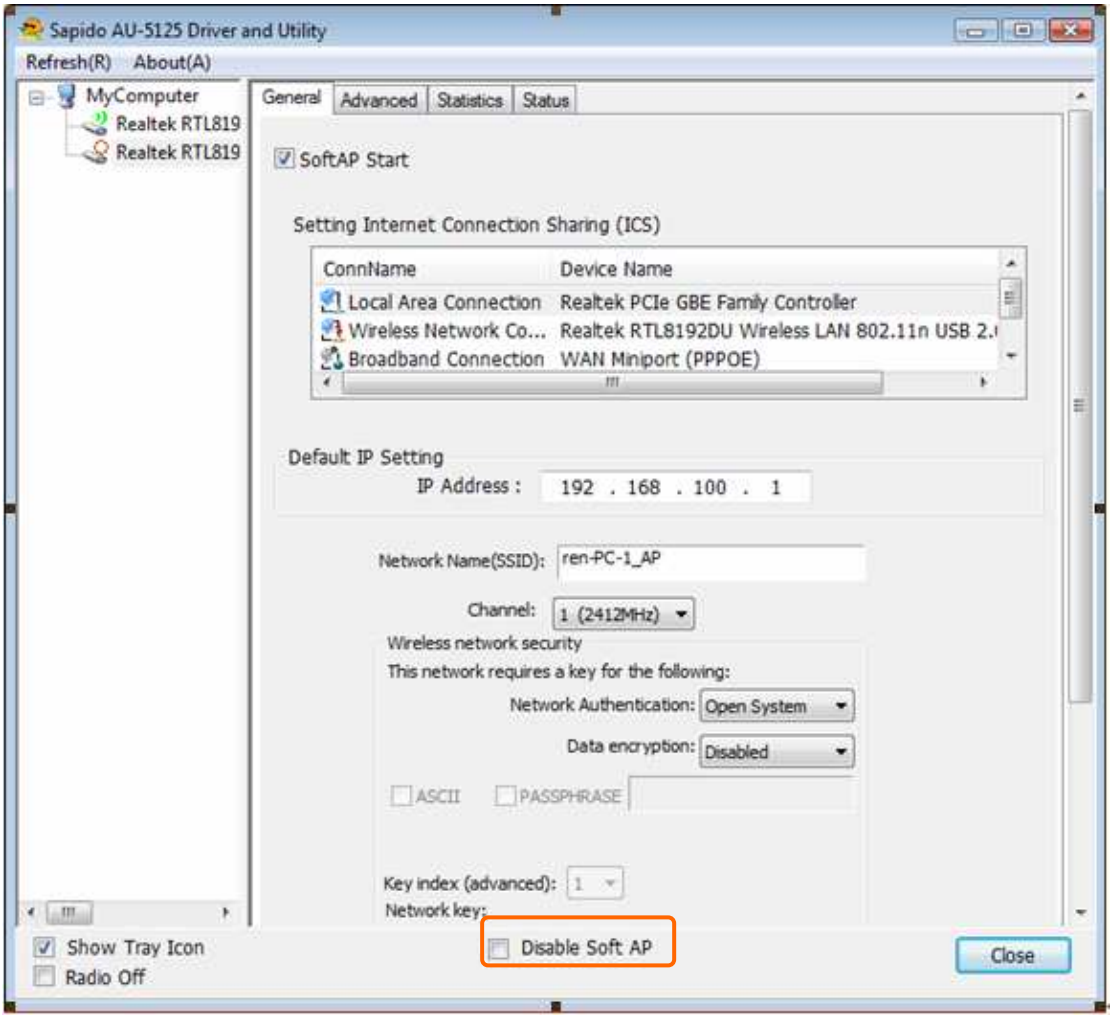


Note：

1. When using access point function，please disable softap network adapter（disable ” Disable Sort AP”）
2. Mouse double click the SoftAP network adapter to switch to soft AP mode and disable “Disable Adapter” to enable soft AP mode
3. If you do not want to use access point mode，please disable softap network adapter（enable ”Disable Sort AP”），then dongle can get better performance

Access Point Mode

Access Point Mode can share your network to others. In ICS panel users can select which network to be shared.



1. **SoftAP Start**

   Enable softap function, “Disable Soft AP item” will be selected when disable this item.

2. **Setting Internet Connection Sharing（ICS）**

   Select one interface for network sharing

3. **Network Name**

   Give a SSID to shared network.

4. **Channel**

   Select a channel for shared network.

5. **Network Authentication**

   Select authentication type for shared network.

6. **Data encryption**

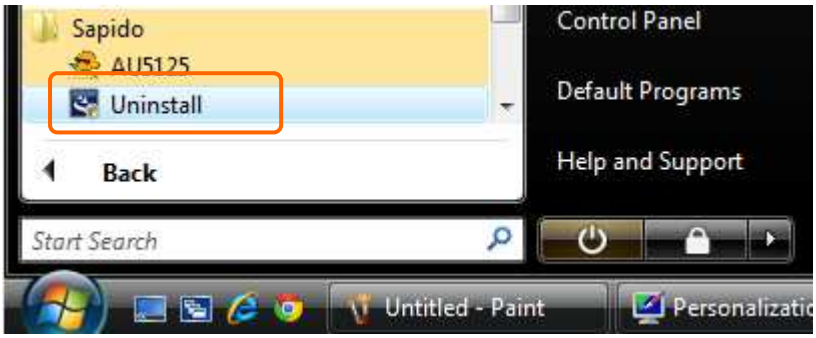
Select to enable/disable data encryption.

7. Network Key

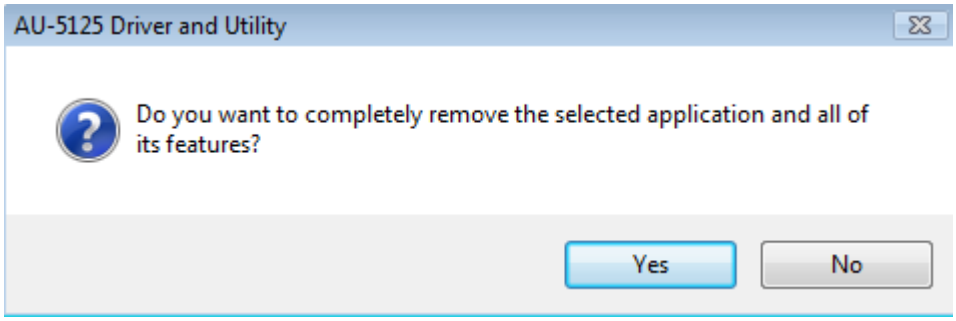
Setup network key for shared network.

Uninstalling the software

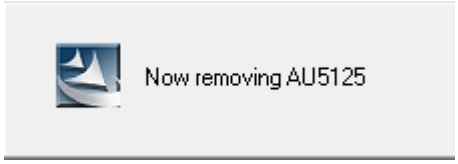
1. Click on your start menu. Next go to "Programs" or "All Programs". Next go to the folder "Wireless". Next select "Uninstall".



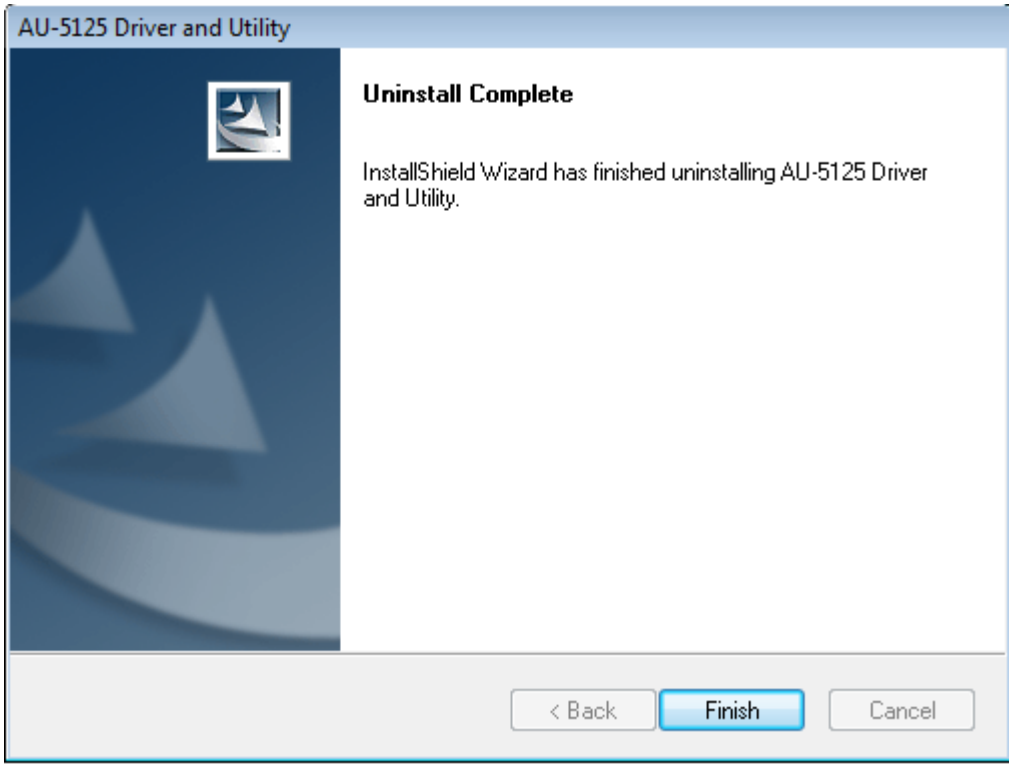
2. The uninstall window should pop up. Click on "Yes" button.



1. The uninstall process should begin and may take a few minutes. Once completed, click "Finish" to close the uninstall window.



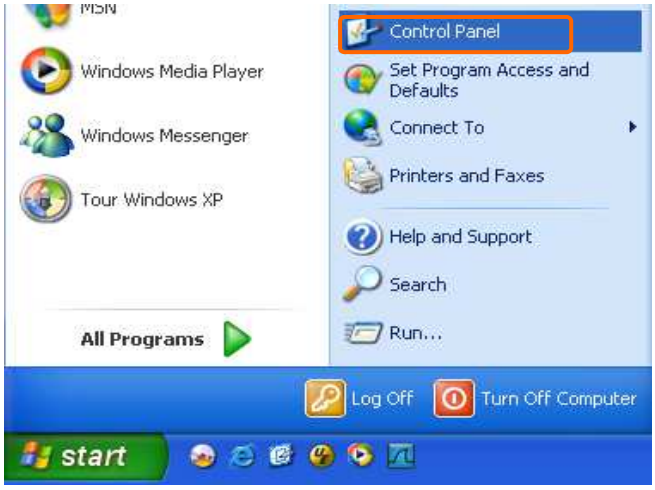
2. Once it's complete, click the "Finish" button to exit the uninstall program.

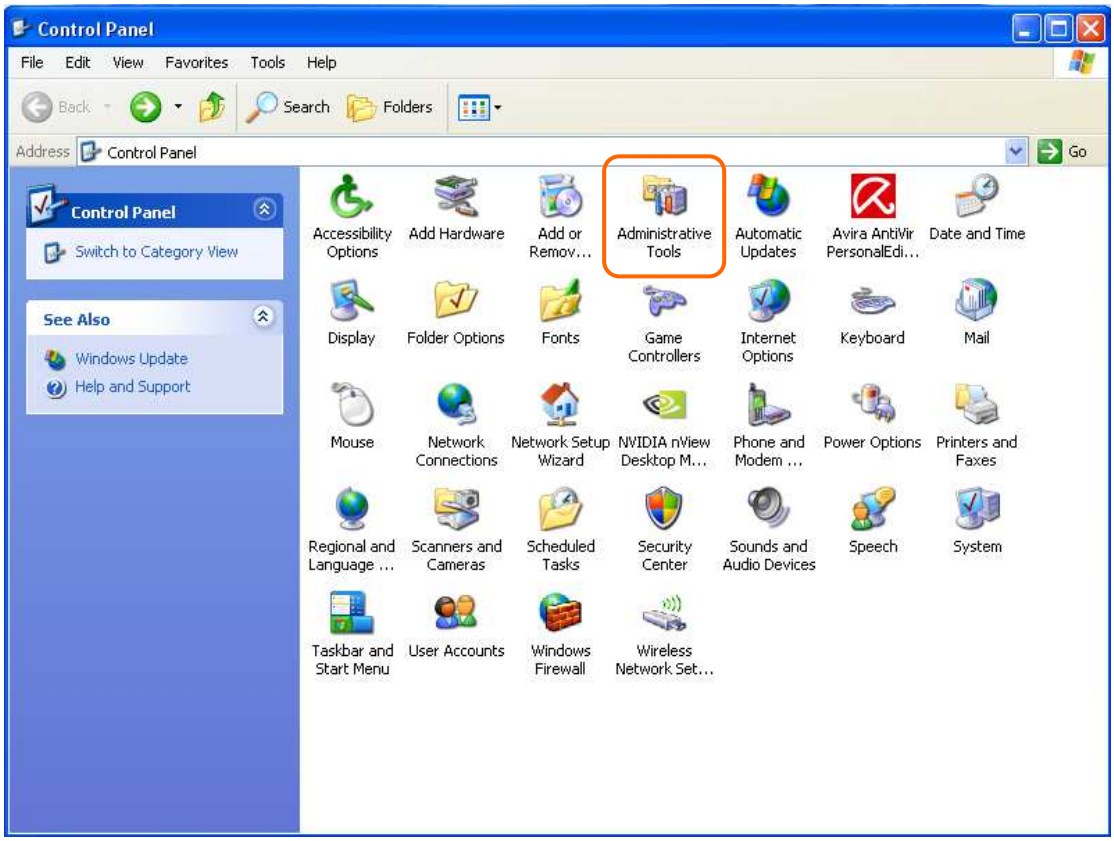

AU-5125 Driver and Utility
Uninstall Complete
InstallShield Wizard has finished uninstalling AU-5125 Driver and Utility.
< Back
Finish
Cancel

Wireless Zero Configuration Troubleshooting

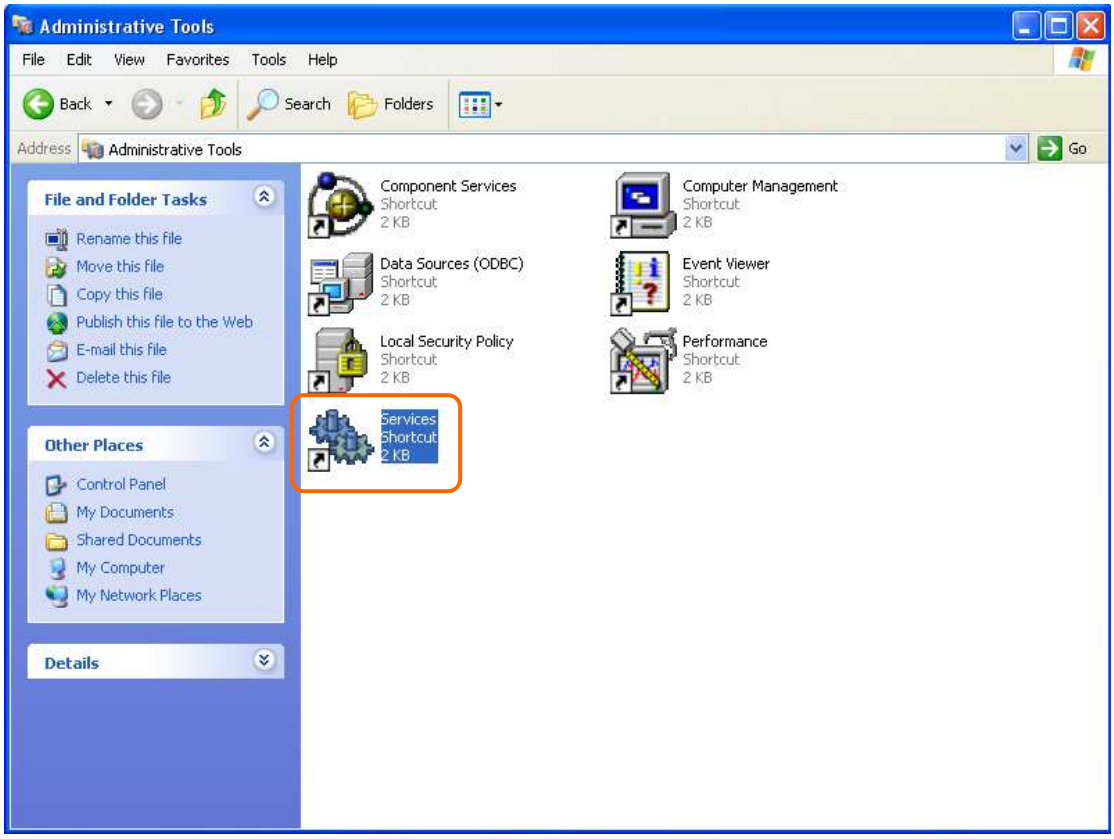
If you are Windows XP user and you can not see the check option of "Windows Zero Config", such as following figure, please do the following steps.

1. Click on your start menu and then click the "control panel" into control panel. Next click the "Administrative Tools".

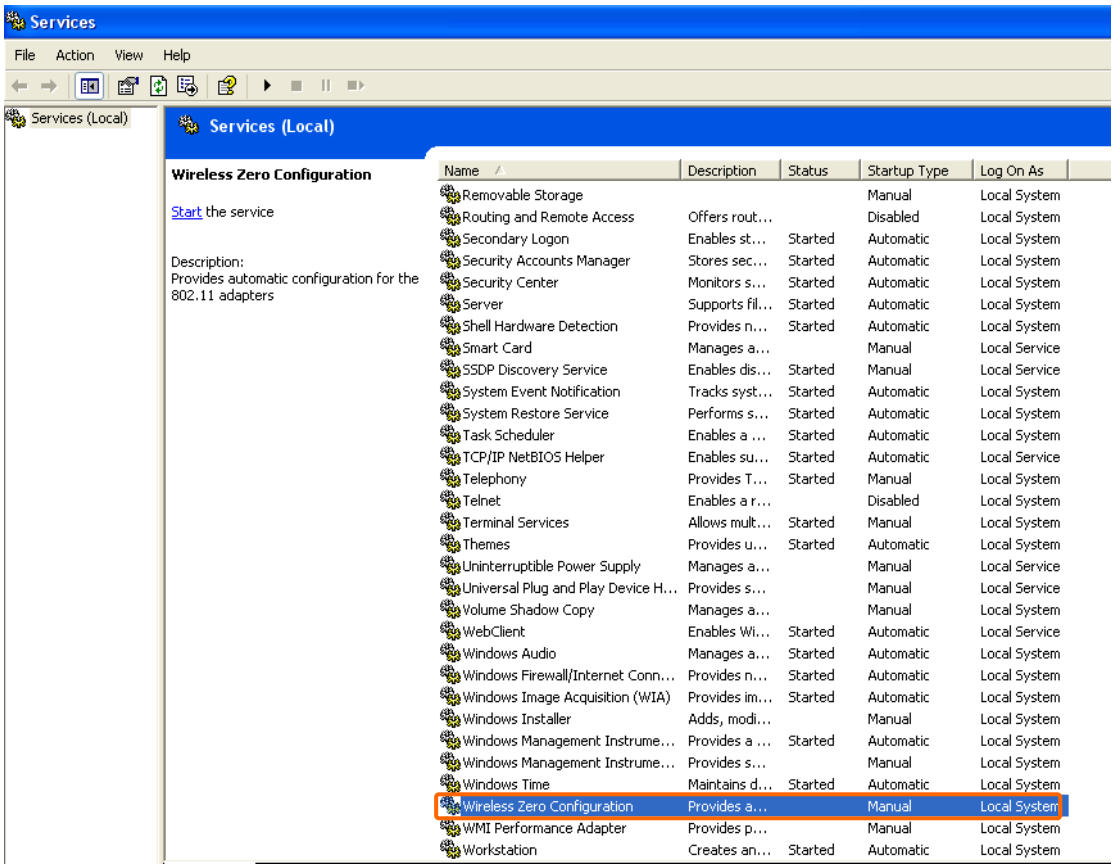


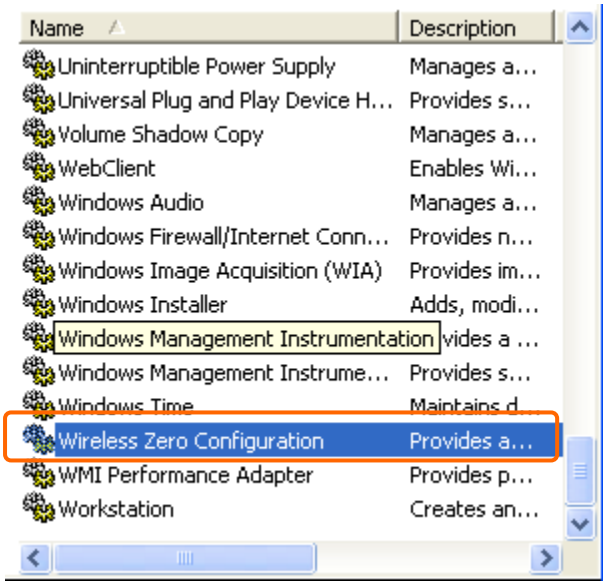


2. Click on the "Services" item.

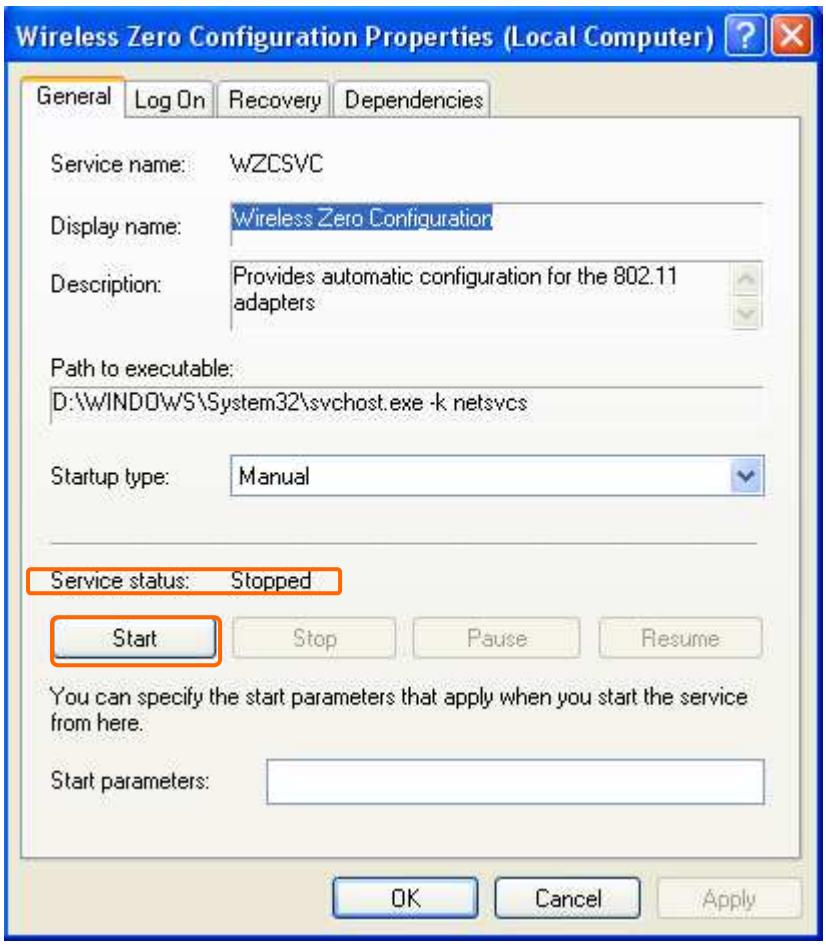


3. It will pop up the Services window. Select the "Wireless Zero Configuration" or "Wireless Configuration" item and double click it.

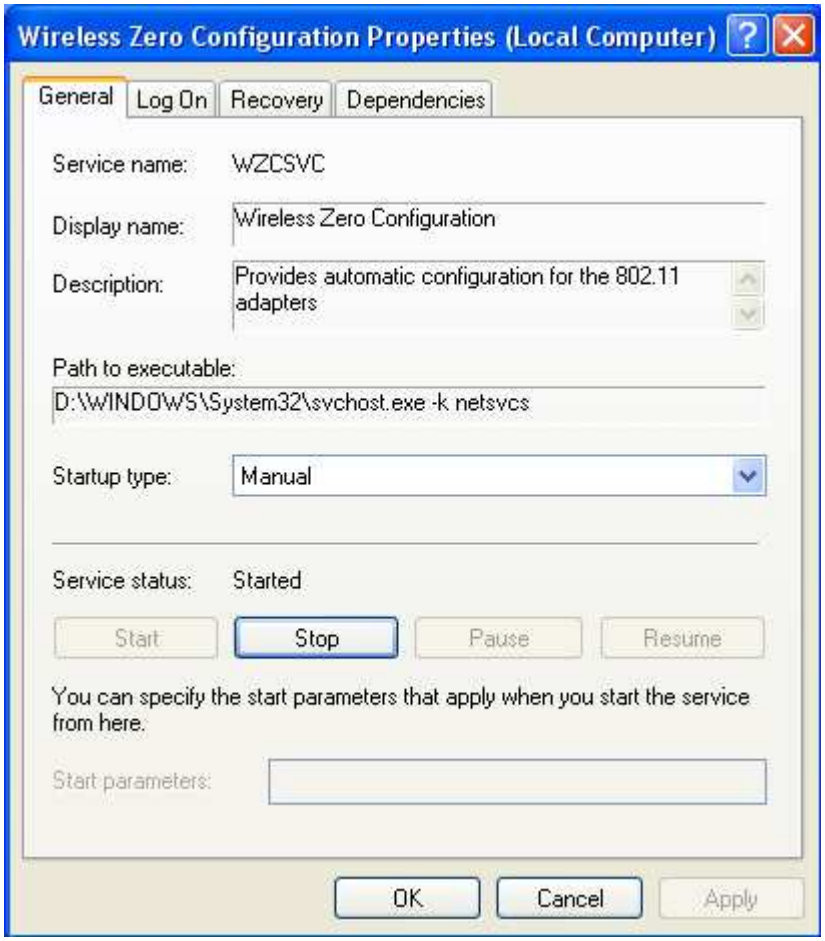

Services
File Action View Help
Services (Local)
Services (Local)
Wireless Zero Configuration
Start the service
Description:
Provides automatic configuration for the 802.11 adapters
Name Description Status Startup Type Log On As
Removable Storage Manual Local System
Routing and Remote Access Offers rout... Disabled Local System
Secondary Logon Enables st... Started Automatic Local System
Security Accounts Manager Stores sec... Started Automatic Local System
Security Center Monitors s... Started Automatic Local System
Server Supports fil... Started Automatic Local System
Shell Hardware Detection Provides n... Started Automatic Local System
Smart Card Manages a... Manual Local Service
SSDP Discovery Service Enables dis... Started Manual Local Service
System Event Notification Tracks syst... Started Automatic Local System
System Restore Service Performs s... Started Automatic Local System
Task Scheduler Enables a ... Started Automatic Local System
TCP/IP NetBIOS Helper Enables su... Started Automatic Local Service
Telephony Provides T... Started Manual Local System
Telnet Enables a r... Disabled Local System
Terminal Services Allows mult... Started Manual Local System
Themes Provides u... Started Automatic Local System
Uninterruptible Power Supply Manages a... Manual Local Service
Universal Plug and Play Device H... Provides s... Manual Local Service
Volume Shadow Copy Manages a... Manual Local System
WebClient Enables Wi... Started Automatic Local Service
Windows Audio Manages a... Started Automatic Local System
Windows Firewall/Internet Conn... Provides n... Started Automatic Local System
Windows Image Acquisition (WIA) Provides im... Started Automatic Local System
Windows Installer Adds, modi... Manual Local System
Windows Management Instrume... Provides a ... Started Automatic Local System
Windows Management Instrume... Provides s... Manual Local System
Windows Time Maintains d... Started Automatic Local System
Wireless Zero Configuration Provides a... Manual Local System
WMI Performance Adapter Provides p... Manual Local System
Workstation Creates an... Started Automatic Local System


Name
Description
Uninterruptible Power Supply Manages a...
Universal Plug and Play Device H... Provides s...
Volume Shadow Copy Manages a...
WebClient Enables Wi...
Windows Audio Manages a...
Windows Firewall/Internet Conn... Provides n...
Windows Image Acquisition (WIA) Provides im...
Windows Installer Adds, modi...
Windows Management Instrumentation vides a ...
Windows Management Instrume... Provides s...
Windows Time Maintains d...
Wireless Zero Configuration Provides a...
WMI Performance Adapter Provides p...
Workstation Creates an...

4. It will pop up the Wireless Zero Configuration Properties window. The "Service status" should be in "Stopped" state now. Click the "Start" button to enable the Wireless Zero Configuration function.



5. Once the setting completes, the “Service status” become to “Started”. Click the “OK” button to finish it and the dongle Wireless Utility can see the check option of “Windows Zero Config”.


Wireless Zero Configuration Properties (Local Computer)
General
Log On
Recovery
Dependencies
Service name:
WZCSVC
Display name:
Wireless Zero Configuration
Description:
Provides automatic configuration for the 802.11 adapters
Path to executable:
D:\WINDOWS\System32\svchost.exe -k netsvcs
Startup type:
Manual
Service status:
Started
Start
Stop
Pause
Resume
You can specify the start parameters that apply when you start the service from here.
Start parameters:
OK
Cancel
Apply

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:
. Reorient or relocate the receiving antenna.
. Increase the separation between the equipment and receiver.
. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
. Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.